

AMENDMENT IN THE CLAIMS

Please cancel claim 6 without prejudice or disclaimer as to its subject matter, amend claims 4 and 5, and add new claims 7 through 17 to read as follows:

1 1. (Original) A bias-T apparatus comprising:

2 a housing comprising an input connector to be connected to a ground base transceiver station
3 and an output connector to be connected to an antenna, said input connector and said output
4 connector integrally formed at opposite sides of the housing, the housing having a housing hole and
5 a fixing hole, the housing hole being formed longitudinally in the housing, the fixing hole connected
6 perpendicularly to the housing hole;

7 a center conductor inserted in the housing hole and including a first conductor and a second
8 conductor, which have a first connector pin and a second connector pin, respectively, the first
9 connector pin and the second connector pin being respectively inserted inside of the output connector
10 and the input connector, thereby enabling electric connection of a signal between the input connector
11 and the output connector; and

12 a fixing pin having a first end connected perpendicularly to the center conductor and a second
13 end inserted in the fixing hole, so that direct current power can be supplied from the second end to
14 the output connector.

1 2.(Original) The bias-T apparatus as claimed in claim 1, wherein the housing further has
2 a recess for receiving elements of the bias-T apparatus, the recess being formed at an upper portion

of the housing, which is located above and connected to the fixing hole.

3.(Original) A center conductor of a bias-T apparatus, the bias-T apparatus having a housing which has a housing hole and includes an input connector and an output connector formed at opposite sides of the housing hole, the input connector being connected to a ground BTS, the output connector being connected to an antenna, the bias-T apparatus enabling electric connection of a signal between the input connector and the output connector and supplying direct current power to the output connector, the center conductor comprising:

a first conductor being inserted in the housing hole, extending in a longitudinal direction of the housing hole, and having a reception tube; and

a second conductor being inserted in the housing hole, extending in a longitudinal direction of the housing hole, and having a conductor shaft, the conductor shaft being inserted in the reception tube so that the first conductor and the second conductor are assembled with each other in the housing hole, wherein

at least one of an inner surface of the reception tube and an outer surface of the conductor shaft is anodized.

4.(Currently Amended) A bias-T apparatus comprising:

a housing including an input connector and an output connector ~~integrally formed at opposite sides of the housing, the input connector being connected to a ground BTS, the output connector being connected to an antenna,~~ the housing having a housing first hole and a fixing second hole, the

housing first hole being formed longitudinally in the housing, the ~~fixing~~ second hole being formed through an upper portion of the housing and connected perpendicularly to the housing hole;

a center conductor including ~~a first conductor and a second conductor which extend longitudinally and are assembled with each other~~ mounted in the housing first hole, ~~the first conductor including a first connector pin and a reception tube formed at opposite ends of the first conductor, the second conductor including a second connector pin and a conductor shaft formed at opposite ends of the second conductor, the conductor shaft being inserted in the reception tube, at least one of an inner surface of the reception tube and an outer surface of the conductor shaft being anodized, the first connector pin and the second connector pin being respectively inserted inside of the output connector and the input connector, thereby enabling to enable~~ electric connection of a signal between the input connector and the output connector; and

a fixing pin having ~~a first end connected perpendicularly to the center conductor and a second end inserted in the fixing hole, so that~~ through said second hole to supply direct current power ~~can be supplied from the second end to the output connector.~~

5.(Currently Amended) The bias-T apparatus as claimed in claim 4, wherein the housing further has a recess for receiving elements of the bias-T apparatus, the recess being formed at an upper portion of the second hole of the housing, which is located above and connected to the fixing hole.

6.(Canceled)

1 7.(New) The bias-T apparatus of claim 2, wherein said first conductor has a reception tube
2 and said second conductor has a conductor shaft, the conductor shaft being inserted in the reception
3 tube so that the first conductor and the second conductor are assembled with each other in the
4 housing hole.

1 8. (New) The bias-T apparatus of claim 7, wherein at least one of an inner surface of the
2 reception tube and an outer surface of the conductor shaft is anodized.

1 9.(New) The bias-T apparatus of claim 4, wherein said center conductor has a third hole, and
2 said fixing pin screws said third hole through said second hole.

1 10.(New) The bias-T apparatus of claim 4, wherein said center conductor comprises a first
2 conductor and a second conductor, said first conductor having a shaft, said second conductor having
3 a reception tube, said shaft inserted in said reception tube to enable electric connection of a signal
4 between the input connector and the output connector.

1 11.(New) The bias-T apparatus of claim 10, wherein at least one of an inner surface of the
2 reception tube and an outer surface of the shaft is anodized.

1 12.(New) The bias-T apparatus of claim 10, wherein said center conductor has a first
2 connector pin to be connected to a ground base transceiver station through said input connector and

3 a second connector pin to be connected to an antenna through said output connector.

1 13. (New) The bias-T apparatus of claim 12, wherein said first connector pin is removably
2 mounted on said first conductor.

1 14.(New) The bias-T apparatus as claimed in claim 12, wherein the housing further has a
2 recess for receiving elements of the bias-T apparatus, the recess being formed at an upper portion
3 of the second hole of the housing.

1 15.(New) The bias-T apparatus of claim 14, wherein said recess is formed to accommodate
2 an EMI filter including coils and dielectric materials.

1 16. (New) The bias-T apparatus of claim 14, wherein said recess is formed to accommodate
2 a gas tube arrester and diodes for protecting the ground base transceiver station from surge voltage
3 introduced from the output connector.

1 17. (New) The bias-T apparatus of claim 14, wherein said center conductor has a third hole,
2 and said fixing pin screws said third hole through said second hole.